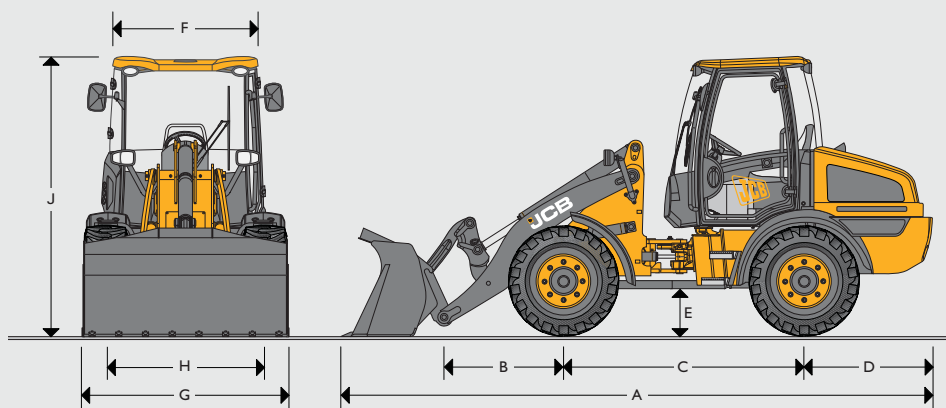


STATIC DIMENSIONS



			407	409
A	Overall length	ft in	16' 10"	17' 11"
B	Axle to pivot pin	ft in	3' 0"	3' 8"
C	Wheel base	ft in	6' 11"	7' 3"
D	Axle to counterweight face	ft in	4' 2"	4' 3"
E	Ground clearance	ft in	1' 1"	1' 7"
F	Width over cab	ft in	4' 10"	4' 10"
G	Width over tires	ft in	5' 8"	6' 3"
H	Wheel track	ft in	4' 7"	4' 11"
J	Height over cab	ft in	8' 2"	8' 8"
	Front axle weight	lbs	3075	4079
	Rear axle weight	lbs	8087	8986
	Total weight	lbs	11162	13065
	Inside turn radius	ft in	6' 7"	6' 10"
	Maximum turn radius over shovel	ft in	13' 8"	14' 6"
	Articulation angle	degrees	±40°	±40°
	Maximum radius over tire	ft in	12' 6"	13' 1"
	Max. width across tires	ft in	5' 9"	6' 3"

407 data based on machine equipped with pin mounted 1.0yd³ bucket with toe plates and Solideal SLR4 12.5-18 tires.

409 data based on machine equipped with pin mounted 1.3yd³ bucket with toe plates and Goodyear SGL 16.0/70-20 tires.

ENGINE

	407	409
Type	4 stroke, Electronic Common Rail	4 stroke, Electronic Common Rail
Model	JCB Diesel by Kohler - KDI 2504 TCR	JCB Diesel by Kohler KDI 2504 TCR
Capacity	in³151	151
Aspiration	Turbocharged	Turbocharged
Cylinders	4	4
Max gross power to SAE J1995/ISO 14396	hp64 @ 2200rpm	74 @ 2200rpm
Max torque	lbft @ 1500rpm221	221
Emissions	T4F	T4F

TRANSMISSION

		407	409
Type		Hydrostatic	Hydrostatic
Model		Rexroth A6VM - 2 speed	Rexroth A6VM - 2 speed
Model (40kph options)		n/a	Rexroth A6VM - 3 speed
Low range	mph	3.7	3.7
High range	mph	12.4	12.4
High speed (optional)	mph	n/a	24.9

AXLES

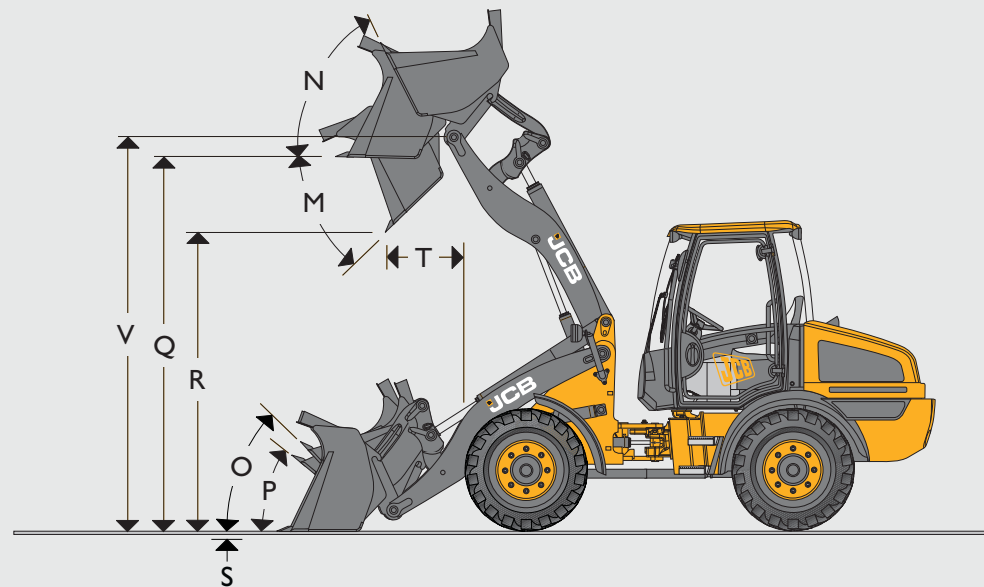
	407	409
Type	Straight beam	Straight beam
Make and model	Dana 111	Dana 111

STEERING

Hydraulic power steering system emergency steering.

LOADER DIMENSIONS

Model (assumes machine is fitted with Solideal SLR4 12.5-18 tires)		407					409				
Bucket type		General purpose	General purpose	Light duty	Light duty	6 in 1 clam shovel	General purpose	General purpose	Light duty	Light duty	6 in 1 clam shovel
Bucket equipment		Teeth or toeplate		Toeplate		Teeth or toeplate	Teeth or toeplate		Toeplate		Teeth or toeplate
Bucket capacity (SAE heaped)	yd ³	1.0	1.3	1.6	1.8	1.0	1.3	1.6	1.8	2.1	1.2
Bucket width	ft in	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 5"	6' 5"	6' 11"	7' 3"	6' 5"
Bucket weight	lbs	633	710	778	847	959	732	789	880	957	961
Maximum material density	kg/m ³	128	101	82	70	131	122	100	84	72	130
Tipping load straight	lbs	9531	9359	9147	9057	9098	10104	9927	9733	9561	8444
Tipping load full turn	lbs	7333	7198	7039	6967	6997	8042	7901	7745	7610	7732
Payload	lbs	3666	3600	3519	3483	3499	4021	3951	3871	3803	3867
Maximum breakout force	lbf	9419	8206	7239	6677	9419	12095	10476	9689	9352	11420
M	Dump angle maximum	degrees	45	45	45	45	45	45	45	45	45
N	Roll back angle full height	degrees	56	56	56	56	63.6	63.6	63.6	63.6	63.6
O	Roll back at carry	degrees	54	54	54	54	53.1	53.1	53.1	53.1	53.1
P	Roll back at ground level	degrees	42	42	42	42	41	41	41	41	41
Q	Load over height	ft in	9' 10"	9' 10"	9' 10"	9' 10"	10' 6"	10' 6"	10' 6"	10' 6"	10' 6"
R	Dump height (45 deg dump)	ft in	8' 2"	7' 11"	7' 8"	7' 6"	8' 7"	8' 4"	8' 2"	8' 0"	8' 7"
S	Dig depth	ft in	0' 4"	0' 4"	0' 4"	0' 4"	0' 2"	0' 2"	0' 2"	0' 2"	0' 2"
T	Reach at dump height	ft in	2' 6"	2' 9"	3' 0"	3' 2"	1' 9"	2' 0"	2' 2"	2' 4"	1' 9"
	Reach maximum (45deg dump) – horizontal arm	ft in	4' 11"	4' 10"	5' 4"	5' 6"	4' 11"	1' 9"	2' 0"	2' 2"	1' 9"
	Operating weight (includes 80Kg operator and full fuel tank)	lbs	11162	11237	11305	11308	11486	13067	13125	13215	13297
V	Pin height	ft in	10' 3"	10' 3"	10' 3"	10' 3"	10' 11"	10' 11"	10' 11"	10' 11"	10' 11"



TIRE SIZE – 406/407

Tire size	Manufacturer	Type	Op weight (lbs)	Dimensions	
				Vertical (in)	Width (in)
335/80 R18	Dunlop	SPT9 EM	+90	-0.2	0
365/70 R18	Dunlop	SPT9 EM	+141	-0.6	+2.1
405/70 R18	Dunlop	SPT9 EM	+207	+0.4	+4.4
335/80 R20	Dunlop	SPT9 MPT	+170	+0.8	-0.8
12.5/80-18	Goodyear	SGL	-26	-0.6	-0.8
12.5-20	Goodyear	MPT	+35	+1.1	-0.6
335/80 R18	Michelin	XZSL	+181	+0.4	+0.6
340/80 R18	Michelin	XMCL	+159	-0.2	+1.0
340/80 R18	Nokian	TRI 2	+123	0	+0.5
12.5-18	Solideal	SLR4	0	0	0
12.5/80-18	Solideal	SLR4	0	-0.6	-0.6

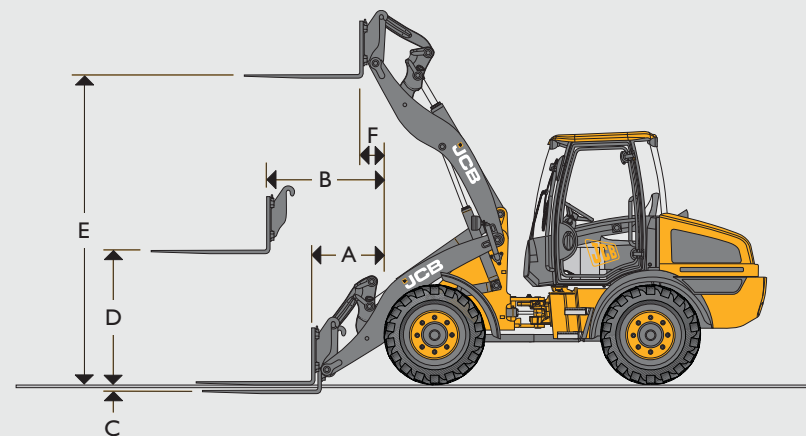
Loader dimensions quoted on 12.5-18 Wheels and Tires.

TIRE SIZE – 409

Tire size	Manufacturer	Type	Op weight (lbs)	Dimensions	
				Vertical (in)	Width (in)
405/70 R18	Dunlop	SPT9 EM	-124	-0.9	-0.3
335/80 R20	Dunlop	SPT9 MPT	-161	-0.1	-3.3
365/80 R20	Dunlop	SPT9 MPT	-122	-0.7	-2.0
405/70 R20	Dunlop	SPT9 MPT	-30	+0.4	-0.3
12.5-20	Goodyear	MPT ISG	-319	-0.2	-3.1
16.0/70-20	Goodyear	SGL	0	0	0
375/75 R20	Michelin	XZSL	-2	-0.2	-0.5
380/75 R20	Michelin	XMCL	-28	-0.2	-0.6
400/70 R20	Michelin	XMCL	0	-0.2	+0.2
405/70 R20	Michelin	XZSL	+55	+0.7	+0.4
420/75 R20	Michelin	XMCL	+84	+0.9	+0.4
340/80 R18	Nokian	TRI 2	-182	-1.3	-2.6
360/80 R20	Nokian	TRI 2	+0.4	+0.4	-2.0

Loader dimensions quoted on 16.0/70-20 Wheels and Tires.

LOADER DIMENSIONS – FORK FRAME WITH FORKS



			Parallel fork	
			407	409
	Fork carriage width	ft in	4' 5"	4' 5"
	Length of tines	ft in	3' 11"	3' 11"
A	Reach at ground level	ft in	2' 4"	2' 5"
B	Reach at arms horizontal	ft in	4' 1"	3' 11"
C	Below ground level	ft in	0' 3"	0' 1"
D	Arms, horizontal height	ft in	4' 8"	4' 7"
E	Arms, maximum height	ft in	9' 11"	10' 7"
F	Reach at maximum height	ft in	1' 8"	0' 9"
	Payload*	lbs	4722	5216
	Tipping load straight	lbs	7328	8349
	Tipping load full turn (40°)	lbs	5732	6409
	Attachment weight	lbs	421	421

* At the center of gravity distance 20 inches. Based on 80% of FTTL as defined in ISO 8313.

Manual fork spacings at 2 inch increments. Fork section 4 x 2 inches.

ELECTRICAL SYSTEM

		407/409
System voltage	Volt	12
Alternator output	Amp hour	80
Battery capacity	Amp hour	100

HYDRAULICS

		407	409
Pump type		Single Gear Pump	Single Gear Pump
Pump max. flow	gal/min	16.91	23.51
Pump max. pressure	psi	3336	3626
Hydraulic cycle times at max. engine			
Arms raise (full bucket)	Seconds	4.9	4.9
Bucket dump (full bucket)	Seconds	3.5	4.1
Arms lower (empty bucket)	Seconds	3.1	3
Total cycle	Seconds	11.5	12

SERVICE FILL CAPACITIES

		407/409
Hydraulic system	gallons	18.5
Fuel tank	gallons	21.1
Engine oil sump	gallons	3.0
Axle oil (front)	gallons	1.2
Axle oil (rear)	gallons	1.6

CAB	In-cab noise level – 407: 78dB(A), 409: 76dB(A). External noise 101 dB(A).
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STANDARD EQUIPMENT

	407	409
GENERAL MACHINE FEATURES	Parallel lift geometry, JCB Hydraulic Quickhitch, articulated steering, front and rear fenders, one piece opening hood, recovery hitch, lifting lugs, temperature controlled engine cooling fan.	
TRANSMISSION	Two speed, neutral start, inching function, forward/reverse switch on joystick control lever.	
BRAKES	In board oil immersed brakes with combined handbrake; cable operated parkbrake.	In board oil immersed brakes with combined handbrake; spring actuated hydraulic released parkbrake.
ELECTRIC	Full Road Lighting, Direction Indicators and Battery Isolator.	
HYDRAULICS	Single lever servo control, gear pump with priority steer, emergency steer back up, flow sharing.	
CAB	ROPS/FOPS safety structure, fully adjustable seat, interior light, adjustable tilt steering column, safety glass, LCD display, front and rear screen wash/wipe, 3 speed heater fan with replaceable filters, radio aperture (high spec cab only), sun visor.	

OPTIONAL EQUIPMENT

	407/409
GENERAL MACHINE FEATURES	HBCV, 4th Spool aux circuit, LSD axles, locking differential front axle with on the fly operation (409 only), immobilizer, livelink, under hood battery isolator, worklights, bio oil, AC, constant flow, high flow plus 7.92 gpm., SRS, 25mph on 409, Rockinger Tow hitch 3.5t, rear aux. hydraulics, rear electrical connection, creep speed, shovel level indicator, stowage box, fully opening RH window with locks. See Dealer for full list.